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### REMARKS

In compliance with 37 C.F.R. § 1.821 through § 1.825, applicants have amended the specification to add Sequence Identifiers. No new matter has been added by this amendment. Applicants respectfully request entry of the present amendment.

Attached hereto is a marked up version of the changes made to the specification by the current amendment with additions underlined and deletions bracketed. The attached pages are captioned "VERSION WITH MARKINGS TO SHOW CHANGES MADE".

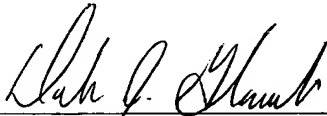
### CONCLUSION

In the unlikely event that the transmittal letter is separated from this document and the Patent Office determines that an extension and/or other relief is required, Applicants petition for any required relief including extensions of time and authorize the Assistant Commissioner to charge the cost of such petitions and/or other fees due in connection with the filing of this document to Deposit Account No. 03-1952 referencing docket no. 348022001600. However, the Assistant Commissioner is not authorized to charge the cost of the issue fee to the Deposit Account.

Respectfully submitted,

Dated: October 26, 2001

By: \_\_\_\_\_

  
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**VERSION WITH MARKINGS TO SHOW CHANGES MADE**

METHODS OF TREATING NEOPLASIA WITH COMBINATION TARGET CELL-SPECIFIC  
ADENOVIRUS, CHEMOTHERAPY AND RADIATION

On page 17, the paragraph containing line 20 has been amended, as follows;

Figure 37 depicts a nucleotide SEQ ID NO: 17 and amino acid sequence SEQ ID NO: 18 for ADP.

On page 77, please amend the paragraph containing lines 28 and 31, as follows:

In some embodiments, a melanocyte-specific TRE comprises sequences derived from the 5' flanking region of a human tyrosinase gene depicted in Table 14. In some of these embodiments, the melanocyte-specific TRE comprises tyrosinase nucleotides from about -231 to about +65 relative to the transcription start site (from about nucleotide 244 to about nucleotide 546 of SEQ ID NO:[ ]10) and may further comprise nucleotides from about -1956 to about -1716 relative to the human tyrosinase transcription start site (from about nucleotide 6 to about nucleotide -243 of SEQ ID NO:[ ]10). A tyrosinase TRE can comprise nucleotides from about -231 to about + 65 juxtaposed to nucleotides from about -1956 to about -1716. It has been reported that nucleotides from about -1956 to about -1716 relative to the human tyrosinase transcription start site can confer melanocyte-specific expression of an operably linked reporter gene with either a homologous or a heterologous promoter. Accordingly, in some embodiments, a melanocyte-specific TRE comprises nucleotides from about -1956 to about -1716 operably linked to a heterologous promoter.

On page 86, the paragraph containing lines 30 and 33 has been amended, as follows:

IRES elements were first discovered in picornavirus mRNAs (Jackson RJ, Howell MT, Kaminski A (1990) *Trends Biochem Sci* 15(12):477-83) and Jackson RJ and Kaminski, A. (1995) *RNA* 1(10):985-1000). The present invention provides improved adenovirus vectors comprising co-transcribed first and second genes under transcriptional control of a heterologous, target cell-specific TRE, and wherein the second gene (i.e., coding region) is under translational control of an internal ribosome entry site (IRES). Any IRES may be used in the adenovirus vectors of the invention, as long as they exhibit requisite function in the vectors. Example of IRES which can be used in the present invention include those provided in Table I and referenced in Table II.

Examples of IRES elements include the encephelomyocarditis virus (EMCV) which is commercially available from Novagen (Duke et al. (1992) *J. Virol* 66(3):1602-9) the sequence for which is depicted in Table 12 (SEQ ID NO:1). Another example of an IRES element disclosed herein is the VEGF IRES (Huez et al. (1998) *Mol Cell Biol* 18(11):6178-90). This IRES has a short segment and the sequence is depicted in Table 12 (SEQ ID NO:2).

On page 131, Table 9 has been amended, as follows:

**Table 9**

Primer	Sequence	Note
A.	5'-GACGTCGACTAATTCCGGTTATTTCCA <u>SEQ ID NO: 19</u>	For PCR EMCV IRES, <i>GTCGAC</i> is a SalI site.
B.	5'-GACGTCGACATCGTGTTTTTCAAAGGAA <u>SEQ ID NO: 20</u>	For PCR EMCV IRES, <i>GTCGAC</i> is a SalI site.
C.	5'-CCTGAGACGCCCGACATCACCTGTG <u>SEQ ID NO: 21</u>	Ad5 sequence to 1314 to 1338.
D.	5'- <u>GTCGACCATT</u> CAGCAAACAAAGGCGTTAAC <u>SEQ ID NO: 22</u>	Antisense of Ad5 sequence 1572 to 1586. <i>GTCGAC</i> is a SalI site. Underline region overlaps with E.
E.	5'-TGCTGAATGGT <u>CGACAT</u> TGGAGGCTTGGGAG <u>SEQ ID NO: 23</u>	Ad5 sequence 1714 to 1728. <i>GTCGAC</i> is a SalI site. Underline region overlaps with D.
F.	5'-CACAAACCGCTCTCCACAGATGCATG <u>SEQ ID NO: 24</u>	Antisense of Ad5 sequence 2070 to 2094.

On page 134, the paragraph containing lines 22 and 23 has been amended, as follows:

The 519 base pair EMCV IRES segment was PCR amplified from Novagen's pCITE vector by primers A/B:

primer A: 5'-GACGTCGACTAATTCCGGTTATTTCCA SEQ ID NO: 19

primer B 5'-GACGTCGACATCGTGTTTTTCAAAGGAA SEQ ID NO: 20 (*GTCGAC* is a SalI site).

On page 135, the paragraph containing lines 13 and 14 has been amended, as follows:

**CP1088**

The 2.2kb (-2225 to +1) human UPII was amplified from CP657 with primer 127.2.1 (5'-AGGACCGGTCACTATAGGGCACGCGTGGT-3' (SEQ ID NO: 25)) PLUS 127.2.2 (5'-AGGACCGGTGGGATGCTGGGCTGGGAGGTGG-3' (SEQ ID NO: 26)) and digested with PinAI and ligated with CP629 cut with PinAI.

On page 137, Table 11 has been amended, as follows:

TABLE 11

Name	Vector	Ad 5 Vector	E1A TRE	E1B TRE	E3
CV874	CP1086	pBHGE3	1.9 kb mUPII	IRES	intact
CV875	CP1087	pBHGE3	1.0 kb hUPII	IRES	intact
CV876	CP1088	pBHGE3	2.2 kb hUPII	IRES	intact
CV877	CP1089	pBHGE3	1.0 kb mUPII	1.0 kb hUPII (E1B promoter deleted)	intact
CV882	CP1129	pBHGE3	1.8 kb hUPII	IRES	intact
CV884	CP1131	pBHGE3	1.8 kb hUPii	IRES (E1B 19-kDa deleted)	intact

Viruses are tested and characterized as described above.

Primer sequences:

96.74.1 GACGTCGACATCGTGTTTTTCAAAGGAA SEQ ID NO: 20  
96.74.2 GACGTCGACTAATTCGGTTATTTTCCA SEQ ID NO: 19  
96.74.3 CCTGAGACGCCCGACATCACCTGTG SEQ ID NO: 21  
96.74.4 TGCTGAATGGTCGACATGGAGGCTTGGGAG SEQ ID NO: 23  
96.74.5 CACAACCGCTCTCCACAGATGCATG SEQ ID NO: 24  
96.74.6 GTCGACCATT CAGCAAACAAAGGCGTTAAC SEQ ID NO: 22  
100.113.1 AGGGGTACCCACTATAGGGCACGCGTGGT SEQ ID NO: 27  
100.113.2 ACCCAAGCTTGGGATGCTGGGCTGGGAGGTGG SEQ ID NO: 28  
127.2.2 AGGACCGGTGGGATGCTGGGCTGGGAGGTGG SEQ ID NO: 26  
127.50.1 AGGACCGGTCAGGCTTACCCCAGACCCAC SEQ ID NO: 29  
31.166.1 TGCGCCGGTGTACACAGGAAGTGA SEQ ID NO: 30

32.32.1 GAGTTTGTGCCATCGGTCTAC SEQ ID NO: 31  
 32.32.2 AATCAATCCTTAGTCCTCCTG SEQ ID NO: 32  
 51.176 GCAGAAAAATCTTCCAAACACTCCC SEQ ID NO: 33  
 99.120.1 ACGTACACCGGTCGTTACATAACTTAC SEQ ID NO: 34  
 99.120.2 CTAGCAACCGGTCGGTTCATAAACG SEQ ID NO: 35

On page 139, the paragraph containing line 11 has been amended, as follows:

**B. Example 16: Construction of a Replication-Competent Adenovirus Vector with a CEA-TRE and a EMCV IRES**

Using a strategy similar to Example 1, the TRE fragment from Carcinembryonic antigen (CEA)(Table 14, SEQ ID NO:[ ]14) is used to construct virus designated CV873. A PinAI fragment containing the CEA-TRE was cloned into the PinAI site in front of E1A of CP627 for the transcriptional control. The resultant plasmid CP1080 is used together with pBHGE3 to generate CV873.

On page 167, the paragraph containing line 3 has been amended, as follows:

**1. Table 12: IRES Sequences**

**SEQ ID NO:[ ]1** A 519 base pair IRES obtainable from encephelomyocarditis virus (EMCV).

1     GACGTCGACTAATTCCGGTTATTTTCCACCATATTGCCGTCTTTTGGCAA  
                   SalI  
 51     TGTGAGGGCCCGGAAACCTGGCCCTGTCTTCTTGACGAGCATTCCCTAGGG  
 101    GTCTTTCCCCTCTCGCCAAAGGAATGCAAGGTCTGTTGAATGTCGTGAAG  
 151    GAAGCAGTTCTCTGGAAGCTTCTTGAAGACAAACAACGTCTGTAGCGAC  
 201    CCTTTGCAGGCAGCGGAACCCCCACCTGGCGACAGGTGCCTCTGCGGCC  
 251    AAAAGCCACGTGTATAAGATACACCTGCAAAGGCGGCACAACCCCAAGTGC  
 301    CACGTTGTGAGTTGGATAGTTGTGGAAAGAGTCAAATGGCTCTCCTCAAG  
 351    CGTATTCAACAAGGGGCTGAAGGATGCCCAGAAGGTACCCCAATTGTATGG  
 401    GATCTGATCTGGGGCCTCGGTGCACATGCTTTACATGTGTTTAGTCGAGG

451 TTAAAAAACGTCTAGGCCCCCGAACCACGGGGACGTGGTTTTCTTTGA

*SalI*

501 AAAACACGATGTCGACGTC

On page 167, the paragraph containing line 19 has been amended, as follows:

**SEQ ID NO:[ ]2** An IRES obtainable from vascular endothelial growth factor (VEGF).

1 ACGTAGTCGACAGCGCAGAGGCTTGGGGCAGCCGAGCGGCAGCCAGGCCC  
*SalI*  
51 CGGCCCCGGGCTCGGTTCCAGAAGGGAGAGAGCCCGCCAAGGCGCGCAA  
101 GAGAGCGGGCTGCCTCGCAGTCCGAGCCGGAGAGGGAGCGCGAGCCGCGC  
151 CGGCCCCGACGGCCTCCGAAACCATGGTCGACACGTA  
*SalI*

On page 167, the paragraph containing line 28 has been amended, as follows:

**SEQ ID NO:[ ]3** A 5'UTR region of HCV.

1 GCCAGCCCCCTGATGGGGGCGACACTCCGCCATGAATCACTCCCCTGTGAGGAACACTG  
61 TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGAC  
121 CCCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG  
181 GACGACCGGGTCTTTCTTGGATTAACCCGCTCAATGCCTGGAGATTGGGGCTGCCCCC  
241 GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCCTTGTGGTACTGCCTGATAGG  
301 GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACC (341)

On page 168, the paragraph containing 1 has been amended, as follows:

**SEQ ID NO:[ ]4** A 5'UTR region of BiP SEQ ID NO:4

1 CCCGGGGTCACTCCTGCTGGACCTACTCCGACCCCCCTAGGCCGGGAGTGAAGGCGGGACT  
61 TGTGCGGTTACCAGCGGAAATGCCTCGGGGTGAGAAGTCGCAGGAGAGATAGACAGCTGC  
121 TGAACCAATGGGACCAGCGGATGGGGCGGATGTTATCTACCATTGGTGAACGTTAGAAAC  
181 GAATAGCAGCCAATGAATCAGCTGGGGGGGCGGAGCAGTGACGTTTATTGCGGAGGGGGC  
241 CGCTTCGAATCGGCGGCGGCCAGCTTGGTGGCCTGGGCCAATGAACGGCCTCCAACGAGC

301 AGGGCCTTCACCAATCGGCGGCCCTCCACGACGGGGCTGGGGGAGGGTATATAAGCCGAGT  
 361 AGGCGACGGTGAGGTGACGCCGGCCAAGACAGCACAGACAGATTGACCTATTGGGGTGT  
 421 TTCGCGAGTGTGAGAGGGAAGCGCCGCGGCCCTGTATTTCTAGACCTGCCCTTCGCCTGGT  
 481 TCGTGGCGCCTTGTGACCCCGGGCCCCCTGCCGCCTGCAAGTCGAAATTGCGCTGTGCTCC  
 541 TGTGCTACGGCCTGTGGCTGGACTGCCTGCTGCTGCCCAACTGGCTGGCAAGATG (595)

On page 168, the paragraph containing line 15 has been amended, as follows:

**SEQ ID NO:[ ]5 A 5'UTR of PDGF SEQ ID NO:5**

1 GTTTGCACCTCTCCCTGCCCCGGGTGCTCGAGCTGCCGTTGCAAAGCCAACTTTGGAAAAA  
 61 GTTTTTTTGGGGGAGACTTGGGCCCTTGAGGTGCCAGCTCCGCGCTTTCCGATTTTGGGGG  
 121 CTTTCCAGAAAATGTTGCAAAAAAGCTAAGCCGGCGGGCAGAGGAAAACGCCTGTAGCCG  
 181 GCGAGTGAAGACGAACCATCGACTGCCGTGTTTCCTTTTCCTCTTGGAGGTTGGAGTCCCC  
 241 TGGGCGCCCCCACACCCCTAGACGCCTCGGCTGGTTCGCGACGCAGCCCCCGGCCGTGG  
 301 ATGCTGCACTCGGGCTCGGGATCCGCCCAGGTAGCCGGCCTCGGACCCAGGTCCTGCGCC  
 361 CAGGTCTCTCCCTGCCCCCAGCGACGGAGCCGGGGCCGGGGGCGGCGCGCCGGGGGCA  
 421 TGCGGGTGAGCCGCGGCTGCAGAGGCCTGAGCGCCTGATCGCCGCGGACCTGAGCCGAGC  
 481 CCACCCCCCTCCCCAGCCCCCACCCTGGCCGCGGGGGCGGCGCGCTCGATCTACGCGTC  
 541 CGGGGCCCCGCGGGGCCGGGCCCGGAGTCGGCATG (575)

Beginning on page 169 and ending on page 172, the paragraph containing lines 7 (page 169) and 1 (page 170) has been amended, as follows:

**2. Table 14: TRE Sequences**

Nucleotide sequence of a human uroplakin II 5' flanking region. Position +1 (the translational start site) is denoted with an asterisk. SEQ ID NO:[ ]6 (number 1 of SEQ ID NO:[ ]6 corresponds to position -2239 with respect to the translational start site).

TCGATAGGTA CCCACTATAG GGCACGCGTG GTCGACGGCC CGGGCTGGTC  
 1 50

TGGCAACTTC AAGTGTGGGC CTTTCAGACC GGCATCATCA GTGTTACGGG



51					100
GAAGTCACTA	GGAATGCAGA	ATTGATTGAG	CACGGTGGCT	CACACCTGTA	
101					150
ATCCCAACAC	TCTGGGAGGC	CAAGGCAGGT	GGATCACTTG	TGGTCAGGAG	
151					200
TTTGAGACCA	GCCTGGCCAA	CATGGTGAAA	CCTCATCTCT	ACTAAAAATA	
201					250
CAAAAATTAG	CTGGGAATGG	TGGCACATGC	CTATAATCCC	AGTTACTCAG	
251					300
GAGGCTGAGG	CAGGAGAATC	ATTTGAACCT	GGGAGGCAGA	GGTTGCAGTG	
301					350
AGCCGAGATC	ACGCCACTGC	ACTCCAGCCT	GGGTGACACA	GCGAGACTCT	
351					400
GTCTCAAAAA	AAAAAAAATG	CAGAATTTCA	GGCTTCACCC	CAGACCCACT	
401					450
GCATGACTGC	ATGAGAAGCT	GCATCTTAAC	AAGATCCCTG	GTAATTCATA	
451					500
CGCATATTAA	ATTTGGAGAT	GCACTGGCGT	AAGACCCTCC	TACTCTCTGC	
501					550
TTAGGCCCAT	GAGTTCTTCC	TTTACTGTCA	TTCTCCACTC	ACCCCAAAC	
551					600
TTGAGCCTAC	CCTTCCCACC	TTGGCGGTAA	GGACACAACC	TCCCTCACAT	
601					650
TCCTACCAGG	ACCCTAAGCT	TCCCTGGGAC	TGAGGAAGAT	AGAATAGTTC	
651					700
GTGGAGCAAA	CAGATATACA	GCAACAGTCT	CTGTACAGCT	CTCAGGCTTC	
701					750
TGGAAGTTCT	ACAGCCTCTC	CCGACAAAGT	ATTCCACTTT	CCACAAGTAA	
751					800
CTCTATGTGT	CTGAGTCTCA	GTTTCCACTT	TTCTCTCTCT	CTCTCTCTCT	
801					850
CAACTTTCTG	AGACAGAGTT	TCACTTAGTC	GCCCAGGCTG	GAGTGCAGGG	
851					900
GCACAATCTC	GGCTCACTGC	AACCTCCACC	TCCTGGGTTC	AAGTGTTTCT	
901					950
CCTGTCTCAG	CCTCCCGAGT	AGCTGGGATT	ACAGGCACAC	ACCACCGCGT	
		40			

Serial No 09/814,357  
Docket No. 348022001600

951				1000
TAGTTTTTGT	ATTTTTGGTA	GAGATGGTGT	TTCGCCATAT	TGGCCAGGCT
1001				1050
GATCTCGAAC	TCCTGACCTC	AGGTGATCCG	CCCACCTCGG	CCTCCCAAAG
1051				1100
TGCTGGGATT	ACAGGCATGA	GCCACCACGC	CCGGCTGATC	TCTTTTCTAT
1101				1150
TTTAATAGAG	ATCAAACCTCT	CTGTGTTGCC	TAGGCTGGTC	TTGAACTCCT
1151				1200
GGCCTCGAGT	GATCCTCCCA	CCTTGGCCTC	CCAAAGTGTT	GAGATTACAG
1201				1250
GCATGAGCCA	CTGTGCCTGG	CCTCAGTTCT	ACTACAAAAG	GAAGCCAGTA
1251				1300
CCAGCTACCA	CCCAGGGTGG	CTGTAGGGCT	ACAATGGAGC	ACACAGAACC
1301				1350
CCTACCCAGG	GCCCCGAAGA	AGCCCCGACT	CCTCTCCCCT	CCCTCTGCCC
1351				1400
AGAACTCCTC	CGCTTCTTTC	TGATGTAGCC	CAGGGCCGGA	GGAGGCAGTC
1401				1450
AGGGAAGTTC	TGTCTCTTTT	TCATGTTATC	TTACGAGGTC	TCTTTTCTCC
1451				1500
ATTCTCAGTC	CAACAAATGG	TTGCTGCCCA	AGGCTGACTG	TGCCCACCCC
1501				1550
CAACCCCTGC	TGGCCAGGGT	CAATGTCTGT	CTCTCTGGTC	TCTCCAGAAG
1551				1600
TCTTCCATGG	CCACCTTCGT	CCCCACCCTC	CAGAGGAATC	TGAAACCGCA
1601				1650
TGTGCTCCCT	GGCCCCCACA	GCCCCTGCCT	CTCCCAGAGC	AGCAGTACCT
1651				1700
AAGCCTCAGT	GCACTCCAAG	AATTGAAACC	CTCAGTCTGC	TGCCCCTCCC
1701				1750
CACCAGAATG	TTTCTCTCCC	ATTCTTACCC	ACTCAAGGCC	CTTTCAGTAG
1751				1800
CCCCTTGGAG	TATTCTCTTC	CTACATATCA	GGGCAACTTC	CAAACTCATC
1801				1850
ACCCTTCTGA	GGGGTGGGGG	AAAGACCCCC	ACCACATCGG	GGGAGCAGTC

1851				1900
CTCCAAGGAC	TGGCCAGTCT	CCAGATGCCC	GTGCACACAG	GAACACTGCC
1901				1950
TTATGCACGG	GAGTCCCAGA	AGAAGGGGTG	ATTTCTTTCC	CCACCTTAGT
1951				2000
TACACCATCA	AGACCCAGCC	AGGGCATCCC	CCCTCCTGGC	CTGAGGGCCA
2001				2050
GCTCCCCATC	CTGAAAAACC	TGTCTGCTCT	CCCCACCCCT	TTGAGGCTAT
2051				2100
AGGGCCCAAG	GGGCAGGTTG	GACTGGATTC	CCCTCCAGCC	CCTCCCGCCC
2101				2150
CCAGGACAAA	ATCAGCCACC	CCAGGGGCAG	GCCTCACTT	GCCTCAGGAA
2151				2200
CCCCAGCCTG	CCAGCACCTA	TTCCACCTCC	CAGCCCAGCA	
2201			2239	

Beginning on page 172 and ending on page 177, the paragraph containing lines 33 and 34 (page 172) has been amended, as follows:

Nucleotide sequence of a mouse uroplakin II 5' flanking region. The translational start site is denoted with an asterisk. SEQ ID NO:[\_]7 (number 1 of SEQ ID NO:[6\_]7 corresponds to position -3592 with respect to the translational start site).

```

CTCGAGGATCTCGGCCCTCTTTCTGCATCCTTGTCCTAAATCATTTTCAT
1                                                                50
ATCTTGCTAGACCTCAGTTTGAGAGAAACGAACCTTCTCATTTTCAAGTT
51                                                                100
GAAAAAAAAAAGAGGTTCAAAGTGGCTCACTCAAAGTTACAAGCCAACAC
101                                                                150
TCACCACTACGAGTACAATGGCCACCATTAGTGCTGGCATGCCCCAGGAG
151                                                                200
ACAGGCATGCATATTATTCTAGATGACTGGGAGGCAGAGGGGTGGCCTAG
201                                                                250
TGAGGTCAGACTGTGGACAGATCAGGCAGATGTGGGTTCTGATCCCAATT
251                                                                300

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CCTCAGGCCGCGAAGCTACTGTGGTTCAAGAAGGGGACAAAAGGACTGCA  
 301 350  
 GTCCGGAACAGGAGGTCCATTTGAGAGCTGACTGAGCAGAAGAGGAAAGT  
 351 400  
 GAAGAACTTCTGGGGCAAGAGCTTACCCTACTTTACAGCTTTGTTGTCTT  
 401 450  
 CTTTACTCCAGGGGCGTCCCTGGTACTCAGTAAATGTCTGTTGGCTTGAG  
 451 500  
 GAACATATGTGTAAGGAGGAAGGAGAGGGAACTTGAGGGAGTTAAGACTC  
 501 550  
 AAGAATCAATCAAGGAGAGGACAGCAGAGAAGACAGGGTTTGGGAGAGAG  
 551 600  
 ACTCCAGACATTGGCCCTGGTTCCCTTCTTGGCCACTGTGAAACCCCTCCA  
 601 650  
 GAGGAACTGAGTGCTGTGGCTTTAAATGATCTCAGCACTGTCAGTGAAGC  
 651 700  
 GCTCTGCTCAAAGAGTTATCCTCTTGCTCCTGTGCCGGGGCCTCCCCCTC  
 701 750  
 CTCTCAGCTCCCAAACCCCTTCTCAGCCACTGTGATGGCATAATTAGATGC  
 751 800  
 GAGAGCTCAGACCGTCAGGTCTGCTCCAGGAACCACCCATTTTCCCCAAC  
 801 850  
 CCCAGAGAAAGGTCCTAGTGGAAGAGTGGGGGCCACTGAAGGGCTGATGG  
 851 900  
 GGTTCCTGTCCTTTCCCCCATGCTGGGTGGACTTAAAGTCTGCGATGTGTG  
 900 950  
 TAGGGGGTAGAAGACAACAGAACCTGGGGGCTCCGGCTGGGAGCAGGAGG  
 951 1000  
 AACTCTCACCAGACGATCTCCAAATTTACTGTGCAATGGACGATCAGGAA  
 1001 1050  
 ACTGGTTCAGATGTAGCTTCTGATACAGTGGGTCTGAGGTAAAACCCGAA  
 1051 1100  
 ACTTAATTTCTTTCAAAAATTTAAAGTTGCATTTATTATTTTATATGTGT  
 1101 1150  
 GCCCATATGTGTGCCACAGTGTCTATGTGGAGGTCAGAGGGCAAGTTGTG  
 1151 1200  
 GGCATTGGCTCTCTCCTTTCATAATGTGGCTTCTGGGGACCAAAATGTCA

1201 1250  
 GGCATGGTGGCAAGAGCTTTTACCTGTTGAGCCATCTCATGGTTTCGTAA  
 1251 1300  
 AACTTCCTATGACGCTTACAGGTAACGCAGAGACACAGACTCACATTTGG  
 1301 1350  
 AGTTAGCAGATGCTGTATTGGTGTAACACTCATAACAGACACACACAC  
 1351 1400  
 ATACTCATAACACACACACACACTTATCACATGCACACACATACTCGTA  
 1401 1450  
 TACACACAGACACACACACATGCACTCTCACATTCACATATTCATACACA  
 1451 1500  
 TCCACACACACACTCATCCACACACACAGACACACATACTCATCCACACA  
 1501 1550  
 CACACACACACATACTCATAACACACACAGACACACATACTCATAACACA  
 1551 1600  
 CACACAGACACACACATATAATCATAACACACAGACACACTCATAACATG  
 1601 1650  
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 1651 1700  
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 1701 1750  
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 1751 1800  
 TCCCTTTAGATGAGATCTCCTCCTCACTTTACACACAGAAAGATCACACA  
 1801 1850  
 CGAGGGAGAACTGGCGGTGCGGAAGAGGGCTACACGGTAGGGTGTGAGGG  
 1851 1900  
 TCAGGAGATCTTCCTGGCAAGTCTCAAACCTCCACATAGCACAGTGTTTA  
 1901 1950  
 CGTGAGGATTTAGGAGGAATCAGGAAGAGGATTGGTTTACTGCAGAGCAG  
 1951 2000  
 ACCATATAGGTCCACTCCTAAGCCCCATTTGAAATTAGAAGTGAGACAGT  
 2001 2050  
 GTGGGATAAAAAGAGCAGATCTCTGGTCACATTTTTAAAGGGATATGAGG  
 2051 3000  
 GTCCTGTGCCTTTAAGCCTTCCCATCTCCCTCCAATCCCCCCTCACCTTC

2101	2150
CCCACCCTAACCCCTCCCCAGGTTTCTGGAGGAGCAGAGTTGCGTCTTCTC	
2151	2200
CCTGCCCTGCCGAGCTGCTCACTGGCTGCTCTAGAGGCTGTGCTTTGCGG	
2201	2250
TCTCCATGGAAACCATTAGTTGCTAAGCAACTGGAGCATCATCTGTGCTG	
2251	2300
AGCTCAGGTCCTATCGAGTTCACCTAGCTGAGACACCCACGCCCCTGCAG	
2301	2350
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2351	2400
AGTAGCCTTTTCAGGAGGGCATGCAGAGCCCCCTGGCCAGCGTCTAGAGGA	
2401	2450
GAGGTGACTGAGTGGGGCCATGTCACCTCGTCCATGGCTGGAGAACCTCCA	
2451	2500
TCAGTCTCCCAGTTAGCCTGGGGCAGGAGAGAACCAGAGGAGCTGTGGCT	
2501	2550
GCTGATTGGATGATTTACGTACCCAATCTGTTGTCCCAGGCATCGAACC	
2551	2600
CAGAGCGACCTGCACACATGCCACCGCTGCCCCGCCCTCCACCTCCTCTG	
2601	2650
CTCCTGGTTACAGGATTGTTTTGTCTTGAAGGGTTTTGTTGTTGCTACTT	
2651	2700
TTTGCTTTGTTTTTTCTTTTTTAACATAAGGTTTCTCTGTGTAGCCCTAG	
2701	2750
CTGTCCTGGAACCTCACTCTGTAGACCAGGCTGGCCTCAAACCTCAGAAATC	
2751	2800
CACCTTCCTCCCAAGTGCTGGGATTAAAGGCATTTCGCACCATCGCCCAGC	
2801	2850
CCCCGGTCTTGTTTCCTAAGGTTTTCTGCTTTACTCGCTACCCGTTGCA	
2851	2900
CAACCGCTTGCTGTCCAAGTCTGTTTGTATCTACTCCACCGCCCACTAGC	
2901	2950
CTTGCTGGACTGGACCTACGTTTACCTGGAAGCCTTCACTAACTTCCCTT	
2951	3000
GTCTCCACCTTCTGGAGAAATCTGAAGGCTCACACTGATACCCTCCGCTT	

3001	3050
CTCCCAGAGTCGCAGTTTCTTAGGCCTCAGTTAAATACCAGAATTGGATC	
3051	3100
TCAGGCTCTGCTATCCCCACCCTACCTAACCAACCCCTCCTCTCCCATC	
3101	3150
CTTACTAGCCAAAGCCCTTTCAACCCTTGGGGCTTTTCCTACACCTACAC	
3151	3200
ACCAGGGCAATTTTAGAACTCATGGCTCTCCTAGAAAACGCCTACCTCCT	
3201	3250
TGGAGACTGACCCTCTACAGTCCAGGAGGCAGACACTCAGACAGAGGAAC	
3251	3300
TCTGTCCTTCAGTCGCGGGAGTTCCAGAAAGAGCCATACTCCCCTGCAGA	
3301	3350
GCTAACTAAGCTGCCAGGACCCAGCCAGAGCATCCCCCTTTAGCCGAGGG	
3351	3400
CCAGCTCCCCAGAATGAAAAACCTGTCTGGGGCCCCTCCCTGAGGCTACA	
3401	3450
GTCGCCAAGGGGCAAGTTGGACTGGATTCCCAGCAGCCCCTCCCCTCCG	
3451	3500
AGACAAAATCAGCTACCCTGGGGCAGGCCTCATTGGCCCCAGGAAACCCC	
3501	3550
AGCCTGTCAGCACCTGTTCCAGGATCCAGTCCCAGCGCAGTA	
3551	
3592	

On page 177, the paragraph containing line 1 has been amended, as follows:

AFP-TRE. SEQ ID NO:[ ]8.

1	GCATTGCTGTGAACTCTGTACTTAGGACTAACTTTGAGCAATAACACACATAGATTGAG
61	GATTGTTTGCTGTTAGCATACAACTCTGGTTCAAAGCTCCTCTTTATTGCTTGTCTTGG
121	AAAATTTGCTGTTCTTCATGGTTTCTCTTTTCACTGCTATCTATTTTTCTCAACCACTCA
181	CATGGCTACAATAACTGTCTGCAAGCTTATGATTCCCAAATATCTATCTCTAGCCTCAAT
241	CTTGTTCCAGAAGATAAAAAGTAGTATTCAAATGCACATCAACGTCTCCACTTGGAGGGC
301	TTAAAGACGTTTCAACATACAAACCGGGGAGTTTTGCCTGGAATGTTTCCTAAAATGTGT
361	CCTGTAGCACATAGGGTCCTCTTGTTCCCTTAAAATCTAATTACTTTTAGCCCAGTGCTCA

421 TCCCACCTATGGGGAGATGAGAGTGAAAAGGGAGCCTGATTAATAATTACACTAAGTCAA  
 481 TAGGCATAGAGCCAGGACTGTTTGGGTAACTGGTCACTTTATCTTAACTAAATATATC  
 541 CAAAACCTGAACATGTACTTAGTTACTAAGTCTTTGACTTTATCTCATTACATACCACTCAG  
 601 CTTTATCCAGGCCACTTATGAGCTCTGTGTCCTTGAACATAAAATACAAATAACCGCTAT  
 661 GCTGTTAATTATTGGCAAATGTCCCATTTTCAACCTAAGGAAATACCATAAAGTAACAGA  
 721 TATACCAACAAAAGGTTACTAGTTAACAGGCATTGCCTGAAAAGAGTATAAAAGAATTTTC  
 781 AGCATGATTTTCCATATTGTGCTTCCACCACTGCCAATAACA (822)

Beginning on page 177 and ending on page 178, the paragraph containing line 40 (page 177) has been amended, as follows:

Probasin -TRE SEQ ID NO:[ ]9

-426

5' -AAGCTTCCACAAGTGCATTTAGCCTCTCCAGTATTGCTGATGAATCCACAGT

TCAGGTTCAATGGCGTTCAAACTTGATCAAAAATGACCAGACTTTATATTTA

CACCAACATCTATCTGATTGGAGGAATGGATAATAGTCATCATGTTTAAACAT

CTACCATTCCAGTTAAGAAAATATGATAGCATCTTGTCTTAGTCTTTTTCTTA

ARE-1

ATAGGGACATAAAGCCCACAAATAAAAATATGCCTGAAGAATGGGACAGGC

ATTGGGCATTGTCCATGCCTAGTAAAGTACTCCAAGAACCTATTTGTATACTA

ARE-2

GATGACACAATGTCAATGTCTGTGTACAACCTGCCAACTGGGATGCAAGACAC

TGCCCATGCCAATCATCCTGAAAAGCAGCTATATAAAAGCAGGAAGCTACTCT

CAAT box

TATAA box

+1

+28

GCACCTTGTTCAGTAGGTCCAGATACCTACAG-3'

Transcription site

On page 178, the paragraph containing line 6 has been amended, as follows:

Tyrosinase-TRE SEQ ID NO:[ ]10

PinAl end

1 CCGGTTGAAAATGATAAGTTGAATTCTGTCTTCGAGAACATAGAAAAGAA



51 TTATGAAATGCCAACATGTGGTTACAAGTAATGCAGACCCAAGGCTCCCC  
 101 AGGGACAAGAAGTCTTGTGTAACTCTTTGTGGCTCTGAAAGAAAGAGAG  
 151 AGAGAAAAGATTAAGCCTCCTTGTGGAGATCATGTGATGACTTCCTGATT  
 201 CCAGCCAGAGCGAGCATTTCCATGGAACTTCTCTTCCTCTTCACTCGAG  
 251 ATTACTAACCTTATTGTTAATATTCTAACCATAAGAATTAACTATTAAT  
 301 GGTGAATAGAGTTTTTCACTTTAACATAGGCCTATCCCACTGGTGGGATA  
 351 CGAGCCAATTTCGAAAGAAAAAGTCAGTCATGTGCTTTTCAGAGGATGAAA  
 401 GCTTAAGATAAAGACTAAAAGTGTGTTGATGCTGGAGGTGGGAGTGGTATT  
 451 ATATAGGTCTCAGCCAAGACATGTGATAATCACTGTAGTAGTAGCTGGAA  
 501 AGAGAAATCTGTGACTCCAATTAGCCAGTTCCTGCAGACCTTGTGA

PinAl end

Beginning on page 178 and ending on page 188, the paragraph containing line 20 (page 178) has been amended, as follows:

Human glandular kallikrein-TRE SEQ ID NO:[ ]11

gaattcagaa ataggggaag gttgaggaag gacactgaac tcaaagggga tacagtgatt 60  
 gggtttatttg tcttctcttc acaacattgg tgctggagga attcccaccc tgagggttatg 120  
 aagatgtctg aacacccaac acatagcact ggagatatga gctcgacaag agtttctcag 180  
 ccacagagat tcacagccta gggcaggagg acactgtacg ccaggcagaa tgacatggga 240  
 attgcgctca cgattggctt gaagaagcaa ggactgtggg aggtgggctt ttagtaaca 300  
 agagggcagg gtgaactctg attcccatgg gggaatgtga tggtcctgtt acaaattttt 360  
 caagctggca ggggaataaaa cccattacgg tgaggacctg tggagggcgg ctgccccaac 420  
 tgataaagga aatagccagg tgggggcctt tcccattgta ggggggacat atctggcaat 480  
 agaagccttt gagacccttt aggggtacaag tactgaggca gcaaataaaa tgaaatctta 540  
 tttttcaact ttatactgca tgggtgtgaa gatatatgtg tttctgtaca gggggtgagg 600  
 gaaaggaggg gaggaggaaa gttcctgcag gtctggtttg gtcttgtgat ccaggggggtc 660  
 ttggaactat ttaaattaaa ttaaattaaa acaagcgact gttttaaatt aaattaaatt 720  
 aaattaaatt ttactttatt ttatcttaag ttctgggcta catgtgcagg acgtgcagct 780

ttgttacata ggtaaacgtg tgccatggtg gtttgcgtga cctatcaacc catcacctag 840  
 gtattaagcc cagcatgcat tagctgtttt tcttgacgct ctccctctcc ctgactccca 900  
 caacaggccc cagtgtgtgt tgttccctc cctgtgtcca tgtgttctca ttgttcagct 960  
 cccacttata agtgagaaca tgtggtgttt gggtttctgt ttctgtgtta gtttgcgtgag 1020  
 gataatggct tccacctcca tccatgttcc tgcaaaggac gtgatcttat tcttttttat 1080  
 gggtgcatag aaattgtttt tacaaatcca attgatattg tatttaatta caagttaatc 1140  
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 aaaataggac gaaggtgaaa tattaggtag gaaaagtata atagttgaaa gaagtaaaaa 1260  
 aaaatatgca tgagtagcag aatgtaaaag aggtgaagaa cgtaatagtg actttttaga 1320  
 ccagattgaa ggacagagac agaaaaatth taaggaattg ctaaaccatg tgagtgttag 1380  
 aagtacagtc aataacatta aagcctcagg aggagaaaag aataggaaaag gaggaatat 1440  
 gtgaataaat agtagagaca tgtttgatgg attttaaaat atttgaaaga cctcacatca 1500  
 aaggattcat accgtgccat tgaagaggaa gatggaaaag ccaagaagcc agatgaaagt 1560  
 tagaaatatt attggcaaag cttaaattgt aaaagtccta gagagaaaagg atggcagaaa 1620  
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 gcattggatt ttgcatgagg acaattctga cctaggaggg caggtcaaca ggaatccccg 10980  
 ctgtacctgt acgttgtaca ggcattggaga atgaggagtg aggaggccgt accggaacct 11040

catattgttt agtggacatt ggattttgaa ataatagga acttggctctg ggagagtcac 11100  
atttctggat tggacaatat gtggtatcac aaggttttat gatgagggag aaatgtatgt 11160  
ggggaaccat tttctgagtg tggaagtgc aagaatcagag agtagctgaa tgccaacgct 11220  
tctatttcag gaacatggta agttggaggt ccagctctcg ggctcagacg ggtatagggg 11280  
ccaggaagtc tcacaatccg atcattctga tatttcaggg catattaggt ttggggtgca 11340  
aaggaagtac ttgggactta ggcacatgag actttgtatt gaaaatcaat gattggggct 11400  
ggccgtggtg ctacgcctg taatctcatc actttgggag accgaagtgg gaggatggct 11460  
tgatctcaag agttggacac cagcctaggg aacatggcca gaccctctct ctacaaaaa 11520  
attaaaaatt agctggatgt ggtggtgcat gcttgtggtc tcagctatcc tggaggctga 11580  
gacaggagaa tcggttgagt ctgggagttc aaggctacag ggagctgca tcacgccgct 11640  
gcactccagc ctgggaaaca gagtgagact gtctcagaat ttttttaaaa aagaatcagt 11700  
gatcatcca accctgttg ctgttcatcc tgagcctgcc ttctctggct ttgttccta 11760  
gatcacatct ccatgatcca taggcctgc ccaatctgac ctacaccgt gggaatgcct 11820  
ccagactgat ctagtatgtg tggaacagca agtgctggct ctccctcccc ttccacagct 11880  
ctgggtgtgg gagggggttg tccagcctcc agcagcatgg ggaggcctt ggtcagcatc 11940  
taggtgcaa cagggaagg gcggggtcct ggagaatgaa ggctttatag ggctcctcag 12000  
ggaggcccc cagcccaaa ctgcaccacc tggccgtgga caccggt 12047

On page 188, the paragraph containing line 37 has been amended, as follows:

HRE-TRE SEQ ID NO:[ ]12

ccccgagg cagtgcac gaggctcagg gcgtgcgt gactgcagcagaccccc gggtgcag gccgga

On page 188, the paragraph containing line 42 has been amended, as follows:

PSA-TRE SEQ ID NO:[ ]13

aagcttctag ttttcttttc ccggtgacat cgtggaaagc actagcatct ctaagcaatg 60  
atctgtgaca atattcacag tgtaatgcc a tccagggaaac tcaactgagc cttgatgtcc 120  
agagatTTTT gtgtTTTTTT ctgagactga gtctcgctct gtgccaggct ggagtgcagt 180  
ggtgcaacct tggctcactg caagctccgc ctctggggt cagccattc tcctgcctca 240



gcctcctgag tagctgggac tacaggcacc cgccaccacg cctggctaata ttttttgtat 300  
tttttagtaga gatgggggtt cactgtgtta gccaggatgg tctcagtctc ctgacctcgt 360  
gatctgcca ccttgccctc ccaaagtgt gggatgacag gcgtgagcca ccgcgcctgg 420  
ccgatatcca gagatTTTTT ggggggctcc atcacacaga catgttgact gtcttcatgg 480  
ttgactttta gtatccagcc cctctagaaa tctagctgat atagtgtggc tcaaacctt 540  
cagcacaat cacaccgtta gactatctgg tgtggcccaa accttcaggt gaacaaaggg 600  
actctaattt ggcaggatac tccaaagcat tagagatgac ctcttgcaa gaaaaagaaa 660  
tggaagaaa aaagaaagaa aggaagaaaa aaaaaaaa gagatgacct ctcaggctct 720  
gaggggaaac gcctgaggtc tttgagcaag gtcagtcctc tgttgacag tctccctcac 780  
agggtcattg tgacgatcaa atgtggtcac gtgtatgagg caccagcaca tgccctggctc 840  
tgaggagtgc cgtgtaagt tatgcttgca ctgctgaatg gctgggatgt gtcagggtatt 900  
atcttcagca cttacagatg ctcatctcat cctcacagca tcactatggg atgggtatta 960  
ctggcctcat ttgatggaga aagtggctgt ggctcagaaa ggggggacca ctagaccagg 1020  
gacactctgg atgctgggga ctccagagac catgaccact caccaactgc agagaaatta 1080  
attgtggcct gatgtccctg tcttgagag ggtggaggtg gaccttact aacctctac 1140  
cttgaccctc tcttttaggg ctctttctga cctccaccat ggtactagga cccattgta 1200  
ttctgtacce tcttgactct atgaccccca ccgcccactg catccagctg ggtccctcc 1260  
tatctctatt cccagctggc cagtgcagtc tcagtgccca cctgtttgtc agtaactctg 1320  
aaggggctga cattttactg acttgcaaac aaataagcta actttccaga gttttgtgaa 1380  
tgctggcaga gtccatgaga ctctgagtc agaggcaaag gcttttactg ctcacagctt 1440  
agcagacagc atgaggttca tgttcacatt agtacacctt gccccccca aatctttag 1500  
ggtgaccaga gcagtctagg tggatgctgt gcagaagggg tttgtgccac tggtgagaaa 1560  
cctgagatta ggaatcctca atcttatact gggacaactt gcaaactgc tcagcctttg 1620  
tctctgatga agatattatc ttcattgatc tggattgaaa acagacctac tctggaggaa 1680  
catattgtat cgattgtcct tgacagtaaa caaatctgtt gtaagagaca ttatctttat 1740  
tatctaggac agtaagcaag cctggatctg agagagatat catcttgcaa ggatgcctgc 1800  
tttacaacaa tccttgaaac aacaatccag aaaaaaaa gtgttactgt ctttgctcag 1860  
aagacacaca gatactgac agaaccatgg agaattgcct cccaacgctg ttcagccaga 1920

gccttccacc ctttctgcag gacagtctca acgttccacc attaaatact tcttctatca 1980  
catcccgctt ctttatgcct aaccaagggt ctaggtcccg atcgactgtg tctggcagca 2040  
ctccactgcc aaaccagaa taaggcagcg ctcaggatcc cgaaggggca tggctgggga 2100  
tcagaacttc tgggtttgag tgaggagtgg gtccaccctc ttgaatttca aaggaggaag 2160  
aggctggatg tgaaggtact gggggaggga aagtgtcagt tccgaactct taggtcaatg 2220  
agggaggaga ctggtaagggt cccagctccc gaggtactga tgtgggaatg gcctaagaat 2280  
ctcatatcct caggaagaag gtgctggaat cctgaggggt agagtctctgg gtatatattgt 2340  
ggcttaaggc tctttggccc ctgaaggcag aggctggaac cattaggtcc aggggtttggg 2400  
gtgatagtaa tgggatctct tgattcctca agagtctgag gatcgagggt tgccattct 2460  
tccatcttgc cacctaattc ttactccact tgagggtatc accagccctt ctagctccat 2520  
gaaggtcccc tgggcaagca caatctgagc atgaaagatg cccagaggc cttgggtgtc 2580  
atccactcat catccagcat cacactctga ggggtgtggc agcaccatga cgtcatgttg 2640  
ctgtgactat ccctgcagcg tgcctctcca gccacctgcc aaccgtagag ctgcccattc 2700  
tcctctggtg ggagtggcct gcatgggtgcc aggctgaggc ctagtgtcag acagggagcc 2760  
tggaatcata gggatccagg actcaaaagt gctagagaat ggccatatgt caccatccat 2820  
gaaatctcaa gggcttctgg gtggagggca cagggacctg aacttatggt ttcccaagtc 2880  
tattgctctc ccaagtgagt ctcccagata cgaggcactg tgccagcatc agccttatct 2940  
ccaccacatc ttgtaaaagg actaccagg gccctgatga acaccatggt gtgtacagga 3000  
gtaggggggtg gaggcacgga ctctgtgag gtcacagcca agggagcatc atcatgggtg 3060  
gggaggaggc aatggacagg cttgagaacg gggatgtggt tgtatttgggt tttctttgggt 3120  
tagataaagt gctgggtata ggattgagag tggagtatga agaccagtta ggatggagga 3180  
tcagattgga gttgggttag ataaagtgt gggatatagga ttgagagtgg agtatgaaga 3240  
ccagttagga tggaggatca gattggagtt gggttagaga tggggtaaaa ttgtgctccg 3300  
gatgagtttg ggattgacac tgtggagggtg gtttgggatg gcatggcttt gggatggaaa 3360  
tagatttgtt ttgatgttgg ctccagacatc cttggggatt gaactgggga tgaagctggg 3420  
tttgattttg gaggtagaag acgtggaagt agctgtcaga tttgacagtg gccatgagtt 3480  
ttgtttgatg gggaatcaaa caatggggga agacataagg gttggcttgt taggttaagt 3540  
tgcgttgggt tgatgggggtc ggggctgtgt ataatgcagt tggattggtt tgtattaaat 3600  
tgggttgggt cagggttttg ttgaggatga gttgaggata tgcttgggga caccgcatcc 3660

atgaggttct cactggagtg gagacaaact tcctttccag gatgaatcca gggaagcctt 3720  
aattcacgtg taggggaggt caggccactg gctaagtata tccttccact ccagctctaa 3780  
gatggtctta aattgtgatt atctatatcc acttctgtct ccctcactgt gcttggagtt 3840  
tacctgatca ctcaactaga aacaggggaa gattttatca aattcttttt tttttttttt 3900  
tttttttgag acagagtctc actctgttgc ccaggctgga gtgcagtggc gcagtctcgg 3960  
ctcactgcaa cctctgcctc ccaggttcaa gtgattctcc tgcctcagcc tcctgagttg 4020  
ctgggattac aggcattgcag caccatgccc agctaatttt tgtattttta gtagagatgg 4080  
ggtttcacca atgtttgcc aagctggcctc gaactcctga cctggtgatc cacctgcctc 4140  
agcctcccaa agtgctggga ttacaggcgt cagccaccgc gccagccac ttttgtcaaa 4200  
ttcttgagac acagctcggg ctggatcaag tgagctactc tggttttatt gaacagctga 4260  
aataaccaac tttttggaaa ttgatgaaat cttacggagt taacagtgga ggtaccaggg 4320  
ctcttaagag ttcccgattc tcttctgaga ctacaaattg tgattttgca tgccacctta 4380  
atcttttttt tttttttttt aaatcgaggt ttcagtctca ttctatttcc caggctggag 4440  
ttcaatagcg tgatcacagc tcaactgtagc cttgaactcc tggccttaag agattctcct 4500  
gcttcggtct cccaatagct aagactacag tagtccacca ccatatccag ataattttta 4560  
aatttttttg ggggccgggc acagtggctc acgcctgtaa tcccaacacc atgggaggct 4620  
gagatgggtg gatcacgagg tcaggagttt gagaccagcc tgaccaacat ggtgaaactc 4680  
tgtctctact aaaaaaaaaa aaaatagaaa aattagccgg gcgtgggtggc acacggcacc 4740  
tgtaatccca gctactgagg aggctgaggc aggagaatca cttgaacca gaaggcagag 4800  
gttgcaatga gccgagattg cgccactgca ctccagcctg ggtgacagag tgagactctg 4860  
tctcaaaaaa aaaaaatttt tttttttttt ttgtagagat ggatcttgct ttgtttctct 4920  
ggttggcctt gaactcctgg cttcaagtga tcctcctacc ttggcctcgg aaagtgttgg 4980  
gattacaggc gtgagccacc atgactgacc tgtcggttaat cttgaggtac ataaacctgg 5040  
ctcctaaagg ctaaaggcta aatatttggt ggagaagggg cattggattt tgcattgagga 5100  
tgattctgac ctgggagggc aggtcagcag gcattctctgt tgcacagata gattgtacag 5160  
gtctggagaa caaggagtgg ggggttattg gaattccaca ttgtttgctg cacgttggat 5220  
tttgaaatgc tagggaactt tgggagactc atatttctgg gctagaggat ctgtggacca 5280  
caagatcttt ttatgatgac agtagcaatg tatctgtgga gctggattct gggttgggag 5340

tgcaaggaaa agaatgtact aaatgccaag acatctatatt caggagcatg aggaataaaa 5400  
gttctagttt ctggtctcag agtgggtgcat ggatcaggga gtctcacaat ctcttgagtg 5460  
ctggtgtctt agggcacact ggggtcttga gtgcaaagga tctaggcacg tgaggctttg 5520  
tatgaagaat cggggatcgt acccaccccc tgtttctgtt tcctcctggg catgtctcct 5580  
ctgcctttgt cccttagatg aagtctccat gagctacaag ggcttgggtgc atccaggggtg 5640  
atctagtaat tgcagaacag caagtgctag ctctccctcc ccttccacag ctctgggtgt 5700  
gggagggggg tgtccagcct ccagcagcat ggggagggcc ttggtcagcc tctgggtgcc 5760  
agcagggcag gggcggagtc ctggggaatg aaggttttat agggctcctg ggggaggctc 5820  
cccagcccca agctt 5835

On page 194, the paragraph has been amended, as follows:

CEA TRE SEQ ID NO: 14

aagcttttta gtgctttaga cagtgaagctg gtctgtctaa cccaagtgac ctgggtccca	60
tactcagccc cagaagtga ggggtgaagct ggggtggagcc aaaccaggca agcctaccct	120
cagggtctccc agtggcctga gaaccattgg acccaggacc cattacttct agggtaagga	180
aggtaaaaa accagatcca accatggtct ggggggacag ctgtcaaatz cctaaaaata	240
tacctgggag agggagcaggc aaactatcac tgccccaggt tctctgaaca gaacacaggg	300
ggcaacccaa agtccaaatc cagggtgagca ggtgcaccaa atgccagag atatgacgag	360
gcaagaagtg aaggaaccac ccctgcatca aatgttttgc atgggaagga gaagggggtt	420
gctcatgttc ccaatccagg agaatgcatt tgggatctgc cttcttctca ctcttggtt	480
agcaagacta agcaaccagg actctggatt tggggaaaga cgtttatttg tggaggacag	540
tgatgacaat cccacgaggg cctaggtgaa gagggcagga aggtctgaga cactggggac	600
tgagtgaana ccacaccat gatctgcacc acccatggat gctccttcat tgctcacctt	660
tctgttgata tcagatggcc ccattttctg taccttcaca gaaggacaca ggctagggtc	720
tgtgcatggc ctctatcccc ggggccatgt gaggacagca ggtgggaaag atcatgggtc	780
ctctgggtc ctgcagggcc agaacattca tcaccatac tgacctcta gatgggaatg	840
gcttccctgg ggtggggcca acggggcctg ggcaggggag aaaggacgtc aggggacagg	900
gaggaagggc catcgagacc cagcctggaa ggttcttctg tctgaccatc caggatttac	960
ttccctgcat ctacctttgg tcattttccc tcagcaatga ccagctctgc ttctgatct	1020
cagcctccca ccctggacac agcaccacag tccctggccc ggctgcatcc acccaatacc	1080
ctgataaacc aggaccatt acttctaggg taaggagggt ccaggagaca gaagctgagg	1140
aaaggtctga agaagtcaca tctgtcctg ccagagggga aaaaccatca gatgtgaac	1200
caggagaatg ttgaccagg aaagggaccg aggacccaag aaaggagtca gaccaccagg	1260
gtttgcctga gaggaaggat caaggccccg agggaaagca gggctggctg catgtgcagg	1320
acactggtgg ggcataatgt tcttagattc tcctgaatt cagtgtccct gccatggcca	1380
gactctctac tcaggcctgg acatgctgaa ataggacaat ggccttgctc tctctccca	1440
ccatttgga agagacataa aggacattcc aggacatgcc ttctgggag gtccaggttc	1500
tctgtctcac acctcaggga ctgtagttac tgcacagcc atggtaggtg ctgatctcac	1560
ccagcctgtc caggcccttc cactctccac tttgtgacca tgtccaggac caccctcag	1620
atcctgagcc tgcaaatacc cccttgctgg gtgggtggat tcagttaaca gtgagctcct	1680

On page 203, the paragraph containing line 5 has been amended, as follows:

**Mucin-TRE** SEQ ID NO:[ ]15

```
cgagcggccc ctcagcttcg gcgcccagcc cgcgaaggct cccggtgacc actagagggc 60
gggaggagct cctggccagt ggtggagagt ggcaaggaag gaccctaggg ttcacgag 120
cccaggttta ctcccttaag tggaaatttc ttccccact cctccttggc tttctccaag 180
gagggaaacc aggctgctgg aaagtccggc tggggcgggg actgtgggtt caggggagaa 240
gggggtgtgg aacgggacag ggagcgggta gaaggggtgg gctattccgg gaagtgggtg 300
ggggagggag cccaaaacta gcacctagtc cactcattat ccagccctct tatttctcgg 360
ccgctctgct tcagtggacc cggggagggc ggggaagtgg agtgggagac ctaggggtgg 420
gcttcccgac cttgctgtac aggacctcga cctagctggc tttgttcccc atccccacgt 480
tagttgttgc cctgaggcta aaactagagc ccagggggcc caagttccag actgcccctc 540
ccccctcccc cggagccagg gagtgggttg tgaaaggggg aggccagctg gagaacaaac 600
gggtagtcag ggggttgagc gattagagcc cttgtaccct acccaggaat ggttggggag 660
gaggaggaag aggtaggagg taggggaggg ggcgggggtt tgtcacctgt cacctgctcg 720
ctgtgcctag ggcgggcggg cggggagtg ggggaccggg ataaagcggg aggcgcctgt 780
gcccgtcca cctctcaagc agccagcgcc tgctgaatc tgttctgccc cctccccacc 840
catttcacca ccaccatg 858
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Beginning on page 203 and ending on page 208, the paragraph containing line 55 (page 203) has been amended, as follows:

**$\alpha$ FP-TRE** SEQ ID NO:[ ]16

```
gaattcttag aaatatgggg gtaggggtgg tgggtggaat tctgttttca ccccataggt 60
gagataagca ttgggttaaa tgtgctttca cacacacatc acatttcata agaattaagg 120
aacagactat gggctggagg actttgagga tgtctgtctc ataacacttg ggttgtatct 180
gttctatggg gcttggttta agcttggcaa cttgcaacag gggtcactga ctttctcccc 240
aagcccaagg tactgtcctc tttcatatc tgttttgggg cctctggggc ttgaatatct 300
gagaaaatat aaacatttca ataatgttct gtggtgagat gagtatgaga gatgtgtcat 360
```

tcatttgtat caatgaatga atgaggacaa ttagtgtata aatccttagt acaacaatct 420  
 gagggtaggg gtggtactat tcaatttcta ttataaaga tacttatttc tatttattta 480  
 tgcttgtgac aaatgttttg ttcgggacca caggaatcac aaagatgagt ctttgaattt 540  
 aagaagttaa tgggtccagga ataattacat agcttacaaa tgactatgat ataccatcaa 600  
 acaagagggt ccatgagaaa ataatctgaa aggtttaata agttgtcaaa ggtgagaggg 660  
 ctcttctcta gctagagact aatcagaaat acattcaggg ataattattt gaatagacct 720  
 taagggttgg gtacattttg ttcaagcatt gatggagaag gagagtgaat atttgaaaac 780  
 attttcaact aaccaaccac ccaatccaac aaacaaaaaa tgaaaagaat ctgagaaaca 840  
 gtgagataag agaaggaatt ttctcacaac ccacacgtat agtcaactg ctctgaagaa 900  
 gtatatatct aatattttaac actaacatca tgctaataat gataataatt actgtcattt 960  
 tttaatgtct ataagtacca ggcattttaga agatattatt ccatttatat atcaaaataa 1020  
 acttgagggg atagatcatt ttcattgat atgagaaaaa ttaaaaacag attgaattat 1080  
 ttgcctgtca tacagctaata aattgaccat aagacaatta gatttaaatt agttttgaat 1140  
 ctttctaata ccaaagttca gtttactgtt ccatgttgct tctgagtggc ttcacagact 1200  
 tatgaaaaag taaacggaat cagaattaca tcaatgcaaa agcattgctg tgaactctgt 1260  
 acttaggact aaactttgag caataacaca catagattga ggattgtttg ctgtttagcat 1320  
 acaaactctg gttcaaagct cctctttatt gcttgtcttg gaaaatttgc tgttcttcat 1380  
 ggtttctctt ttcactgcta tctatttttc tcaaccactc acatggctac aataactgtc 1440  
 tgcaagctta tgattcccaa atatctatct ctagcctcaa tcttgttcca gaagataaaa 1500  
 agtagtattc aaatgcacat caacgtctcc acttgagggg cttaaagacg tttcaacata 1560  
 caaacggggg agttttgcct ggaatgtttc ctaaaatgtg tcctgtagca cataggggtcc 1620  
 tcttgttcct taaaatctaa ttacttttag ccagtgctc atcccaccta tggggagatg 1680  
 agagtgaaaa gggagcctga ttaataatta cactaagtca ataggcatag agccaggact 1740  
 gtttggttaa actggtcact ttatcttaaa ctaaatatat ccaaaactga acatgtactt 1800  
 agttactaag tctttgactt tatctcatc ataccactca gctttatcca ggccacttat 1860  
 ttgacagtat tattgcgaaa acttcctaac tgggtctcctt atcatagtct tatccccctt 1920  
 tgaaacaaaa gagacagttt caaaatacaa atatgatttt tattagctcc cttttgttgt 1980  
 ctataatagt ccgagaagga gttataaact ccatttaaaa agtctttgag atgtggccct 2040  
 tgccaacttt gccaggaatt cccaatatct agtattttct actattaaac tttgtgcctc 2100

ttcaaaactg cattttctct cattccctaa gtgtgcattg ttttccctta ccggttggtt 2160  
 tttccaccac cttttacatt ttcttggaac actataccct ccctcttcat ttggcccacc 2220  
 tctaattttc tttcagatct ccatgaagat gttacttcct ccaggaagcc ttatctgacc 2280  
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 tacatggtgc ctgtctcttg ttgctgatta ttcccatcca aaaacagtgc ctggaatgca 2460  
 gacttaacat tttattgaat gaataaataa aaccccatct atcgagtgc actttgtgca 2520  
 agacccggtt ctgaggcatt tatatttatt gattttattt attctcattt aaccatgaag 2580  
 gaggtactat cactatcctt attttatagt tgataaagat aaagcccaga gaaatgaatt 2640  
 aactcaccca aagtcattga gctaagtgac agggcaaaaa ttcaaaccag ttccccaact 2700  
 ttacgtgatt aatactgtgc tatactgcct ctctgatcat atggcatgga atgcagacat 2760  
 ctgctccgta aggcagaata tggaaggaga ttggaggatg acacaaaacc agcataatat 2820  
 cagaggaaaa gtccaaacag gacctgaact gatagaaaag ttgttactcc tgggtgtagtc 2880  
 gcatcgacat cttgatgaac tgggtggctga cacaacatac attggccttga tgtgtacata 2940  
 ttattttagt ttgtgtgtgt atttttatat atatatttgt aatattgaaa tagtcataat 3000  
 ttactaaagg cctaccattt gccaggcatt ttacatttg tcccctctaa tcttttgatg 3060  
 agatgatcag attggattac ttggccttga agatgatata tctacatcta tatctatatc 3120  
 tataatctata tctatatcta tatctatatc tataatctata tatgtatatc agaaaagctg 3180  
 aaatatgttt tgtaaagtta taaagatttc agactttata gaatctggga tttgccaaat 3240  
 gtaacccctt tctctacatt aaacccatgt tggaacaaat acatttatta ttcattcatc 3300  
 aaatgttgct gagtcctggc tatgaaccag acactgtgaa agcctttggg atattttgcc 3360  
 catgcttggg caagcttata tagtttgctt cataaaactc tatttcagtt cttcataact 3420  
 aatacttcat gactattgct tttcaggtat tccttcataa caaatacttt ggctttcata 3480  
 tatttgagta aagtcacctt tgaggaagag tagaagaact gcactttgta aatactatcc 3540  
 tggaatccaa acggatagac aaggatggtg ctacctctt ctggagagta cgtgagcaag 3600  
 gcctgttttg ttaacatggt ccttaggaga caaaacttag gagagacacg catagcagaa 3660  
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